VARIOUS CHECKLISTS

FOR THE PRAIRIE ISLAND INITIAL EXAMINATION - AUGUST 2002

Facility:	Prairie Island Date of Examination	: <u>8/12-16/02</u>
Examinat	ions Developed by: Facility / NRC (circle one)	
Target Date*	Task Description / Reference	Chief Examiner's Initials
-180	Examination administration date confirmed (C.1.a; C.2.a & b)	#P
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	A
-120	3. Facility contact briefed on security & other requirements (C.2.c)	AP
-120	4. Corporate notification letter sent (C.2.d)	#
[-90]	[5. Reference material due (C.1.e; C.3.c)]	P
-75	6. Integrated examination outline(s) due (C.1.e & f; C.3.d)	Aff
-70	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	MA
-45	Proposed examinations, supporting documentation, and reference materials due (C.1.e, f, g & h; C.3.d)	#
-30	9. Preliminary license applications due (C.1.I; C.2.g; ES-202)	X
-14	10. Final license applications due and assignment sheet prepared (C.1.I; C.2.g; ES-202)	DO
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	10
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f & h; C.3.g)	TO
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	All
-7	14. Final applications reviewed; assignment sheet updated; waiver letters sent (C.2.g, ES-204)	APP)
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee and authorization granted to give written exams (if applicable) (C.3.k)	A
-7	Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	NO.

Target dates are keyed to the examination date identified in the corporate notification letter. They are for planning purposes and may be adjusted on a case-by-case basis in coordination with the facility licensee.

Applies only to examinations prepared by the NRC.



Nuclear Management Company, LLC
Prairie Island Nuclear Generating Plant
1717 Wakonade Dr. East • Welch MN 55089

August 22, 2002

10 CFR 55

Mr. Hironori Peterson U S Nuclear Regulatory Commission Region III 801 Warrenville Road Lisle, IL 60532-4351

PRAIRIE ISLAND NUCLEAR GENERATING PLANT

Docket Nos. 50-282 License Nos. DPR-42 50-306 DPR-60

Examination Security Agreement for Initial Operator License Examination

Enclosed is the signed Examination Security Agreement for the initial operator license examination administered at Prairie Island during the period of August 12, 2002 to August 16, 2002. This agreement is submitted in accordance with the Operator Licensing Examination Standards for Power Reactors, NUREG-1021, ES-501 C.1.a.

Prairie Island has completed its review of the license written examination administered on August 16, 2002 and we have no recommended changes to the examination answer key.

In this letter we have made no new Nuclear Regulatory Commission commitments.

If you have questions, please contact John Kempkes at 651-388-1165 X5031.

Sincerely,

Mano K. Nazar

Site Vice President

Encl: Examination Security Agreement (1 page)

2002 No/5RO

(In lieu of ES-201-3 - und heine from Aleking

PRAIRIE	ISLAND TRAINING CENTER	PITC 218 Q
TITLE:	EXAMINATION SECURITY AGREEMENT	Revision 0
		Page 1 of 1

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing requalification examination scheduled for the week(s) indicated in this agreement as of the date of my signature. I agree that I will not knowingly divulge any information about this examination to any unauthorized persons. An unauthorized person is any individual who has not been approved by the NRC chief examiner to receive specialized knowledge of the examination. I understand that I am not to participate in any instruction, tutoring, or examination involving those operators scheduled to be administered this licensing/requalification examination from this date until completion of examination administration. Furthermore, I am aware of the physical security measures and requirements (as documented in procedure PITC 3.10 "NRC Exam Security"). I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the examination(s) administered during the indicated week(s). From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those operators who were administered this licensing/requalification examination(s).

Examination Period	AUGUST 12, 200	2.	to	AUGUST	16,20	02	<u></u>
Printed Name	Pre-Examination Certification (1)			Post-Examir Certification			
JAN KEMALES		Date 6	19/02		· • • • • • • • • • • • • • • • • • • •	Date	811/2
MICHAEL C. WHITE	- thebest C. With-	. <u>-</u>	9-62	mudate.	Jut_	Date	8-16 02
Brian Johnson	10 mg	Date £	19/02	Kleh		Date	8/16/02
MIKE GAZDZINSA	k Holl	Date >	/1/02	-1.6.	_ (_)	Date	8/19/02
MARK BOEN	Max Down	Date 7/	14/02.	Moson		Date	8/20/02
Jeff Gehlhar	Dehlhan	Date 1/	16/02	DASellh	an	Date	8/19/02
GENE DAMMAN	Dero	Date 7	116/02	Suban		Date	81Ab1
RICHARD MARTIN	10mn	Date 7	116/02	am-		Date	8-16-02
Kevin Rhedy	Kem S Flory	Date 7	116/02	Kan S. Ple		Date	8/16/07
Scott Whitson	Levy D. White.	Date 7	116/02	dentes un	ten	Date	8/1/02
WAYNE 12VIN	· source of the	Date 7	-16 02	ward!	ni	Date 6	8-1602
steve Schmidt	Alle Schools	Date Z	14-02	Mr Schill		Date	8-16-07
Defe Krk Cedegra	D Cellery		12/02	O. Celena	- 1	Date	8/16/02
MICHAEL C.	0	Date				Date	
WILLIAM MATITER	Willia Moth	Date 🛂	16/02	what		Date	8/16/02

Retention: Life of Plant j:\pitforms\pitc218

Source Document: PITC Proc. 3.10

Facility: Prairie Island	Date of Examination: August 12 -16, 2002 Operating	g Test N	umber:	
	1. GENERAL CRITERIA	a	Initial	s c#
a. The operating test sampling requirem	conforms with the previously approved outline; changes are consistent with ents (e.g., 10 CFR 55.45, operational importance, safety function distribution).	NU CF	ler.	Af
b. There is no day-to- this examination.	-day repetition between this and other operating tests to be administered during	4	cop	K
c. The operating test	shall not duplicate items from the applicants' audit test(s)(see Section D.1.a).	nade	BOP	M
d. Overlap with the w limits.	ritten examination and between operating test categories is within acceptable	nav	BOP	A
	operating test will differentiate between competent and less-than-competent esignated license level.	94 4	BOP	10
2	. WALK-THROUGH (CATEGORY A & B) CRITERIA			
· initial conditions	s the following, as applicable:	Knai	BAP	44
reasonable and videsignation if de specific performi detailed expensive system respective criteria for section identification.	ools, including associated procedures validated time limits (average time allowed for completion) and specific emed to be time critical by the facility licensee ance criteria that include: bected actions with exact criteria and nomenclature ponse and other examiner cues describing important observations to be made by the applicant successful completion of the task in of critical steps and their associated performance standards on the sequence of steps, if applicable			
b. The prescripted qu Attachment 1 of E	sestions in Category A. are predominantly open reference and meet the criteria in S-301.	NA	MA	MA
	erating tests used during the previous licensing examination is within acceptable walk-through) and do not compromise test integrity.	nav	SOP	H
d. At least 20 percent	t of the JPMs on each test are new or significantly modified.	700	BBP	HP
- <u>-</u>	3. SIMULATOR (CATEGORY C) CRITERIA	<u> </u>		
	nulator operating tests (scenario sets) have been reviewed in accordance with id a copy is attached.	nad	BBP	H
a. Author (LET)	Printed Name / Signature Nicholas Valos & Charles Phillips / Wildows Walos & Charles Phillips / Wildows Walos Wal		Date	102
b. Examiner of Record	Bruce Palagi / Bruce Palago	_ ,6	/26	102
c. NRC Chief Examiner (#)	Hironori Peterson	_ ⁄垄	7/3	202
d. NRC Supervisor	Mike Birdby		8/6/	<u>ه ک</u>
	ature is not applicable for NRC-developed tests. C reviewer initial items in Column "c;" chief examiner concurrence required.			

Facility:	Prairie Island Date of Exam: August 12-16, 2002 Scenario Numbers: / / / O	perating	Test	No.:
	QUALITATIVE ATTRIBUTES	L	Initia	ls
		a	p.	C#
		<u> </u>		
1.	The initial conditions are realistic, in that some equipment and/or instrumentation may be out of service, but it does not cue the operators into expected events.	r Au	BBF	N
2.	The scenarios consist mostly of related events.	J 373	BP	1
3.	Each event description consists of the point in the scenario when it is to be initiated the malfunction(s) that are entered to initiate the event the symptoms/cues that will be visible to the crew the expected operator actions (by shift position) the event termination point (if applicable)	79 V	Bæ	10
4.	No more than one non-mechanistic failure (e.g., pipe break) is incorporated into the scenario without a credible preceding incident such as a seismic event.	3 20	BBP	M
5	The events are valid with regard to physics and thermodynamics.	427	POP	72
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	4 21	BOP	A.
7.	If time compression techniques are used, the scenario summary clearly so indicates. Operators have sufficient time to carry out expected activities without undue time constraints. Cues are given.	لم کا	BBP	M
8.	The simulator modeling is not altered.	19 20	BOP	1
9.	The scenarios have been validated. Any open simulator performance deficiencies have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.	טור	360	A
10.	Every operator will be evaluated using at least one new or significantly modified scenario. All other scenarios have been altered in accordance with Section D.4 of ES-301.	13 mJ	ВСР	311
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	יור פון	BBP	M
12.	Each applicant will be significantly involved in the minimum number of transients and events specified on Form ES-301-5 (submit the form with the simulator scenarios).	ر الم	668	H
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	4 20	CO	H
TARGET	QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D) Actual Attributes			
1.	Total malfunctions (5-8)	(g N)	Cap	#6
2.	Malfunctions after EOP entry (1-2) 1 /1 / 3 / 2	nv 1	COP	XX
3	Abnormal events (2-4) 2 / 2 / 4	is hi	COP	*
4.	Major transients (1-2)	of my	BEP	*
5.	EOPs entered/requiring substantive actions (1-2)	46 AN	BBP	#
6.	EOP contingencies requiring substantive actions (0-2) 1 / 1 / 1 / 1	7 NJ	BOP	H
7.	Critical tasks (2-3) 4 / 2 / 3 / 3/	60 m	SAP	10

Afribules modified following scenario validation]

OPERATING TEST NO.:

		iiiid iloi i					
Applicant Type	Evolution Type	Minimum Number		Scena	rio Num	ber]
Турс	Туре	Number	1	2	3	4	
	Reactivity	11	1	1	4	2	
	Normal	11	1	1,2	4	1	*
RO	Instrument / Component	4	(BOP) 2.4.5.7	2(BO)	(PO) (BOP) 3.6.8	4 (BO)	
	Major	1	6	48	5,9	7	*
	Reactivity	1]
As RO	Normal	0]
	Instrument / Component	2					
	Major	1					
SRO-I							
	Reactivity	0					
	Normal	11					
As SRO	Instrument / Component	2					
	Major	1]
	Reactivity	0	0	0]
	Normal	1			0	0	*
600 11			1	1,2	4	1	
SRO-U	Instrument / Component	2	2- 5,7	2-3 5	1,2, 3,6, 7,8	3,4, 5,6	#
	Major	1	6	48	5,9	7	*

Instructions:	(1) Er	'n
		ı

ter the operating test number and Form ES-D-1 event numbers for each evolution type.

(2)

Reactivity manipulations may be conducted under normal or controlled abnormal conditions (refer to Section D.4.d) but must be significant per Section C.2.a of Appendix D.

Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight (3) to the applicant's competence count toward the minimum requirement.

Author (LET):	
NRC Rèviewer:	
(Examiner of Record	d
Chief Examiner:	

Nicholas Valos & Charles Phillips / Tuck Bruce Palagi /

		Applicant #1 RO/SRO-I/SRO-U			Applicant #2 BOP/SRO-I/SRO-				Applicant #3 RO/SRO-I/ <u>SRO-U</u>				
Competencies		SCE	VARIO	<u> </u>		SCENARIO				SCENARIO			
	1	2	3	4	1	2	3	4	1	2	3	4	
Understand and Interpret Annunciators and Alarms	2.3.6	24	1.2, 7.9	3.5. 6,7	4-7	2.4.5	3.4 5.8. 9	3 / . 7,8	2-7	\$ K & S	1-5. 7-9	3-8	
Diagnose Events and Conditions	2.3.6	2.5	1,2, 5,7, 9	8.5, 6,7	4-7	2.4.5 معت	3,4, 5,6, 8,9	3.4.5 7.8	2-7	35 5	1-9	3-8	
Understand Plant and System Response	1-3,6	2 13. 5 #	1,2, 4,7, 9	2.7. 5-17.	4-7	12.3	3.4. 5.6. 8.9	1.2. 3. // \$	1-7	1-3	1-9	7-87 17 56 78	
Comply With and Use Procedures (1)	1,3,6	- 15 E	1.2. 4.5. 7,9	2. 3 . 5.6, 7. 3	2,4-	1.5	3.4. 6.8. 9	1.#.3 7.8	1,6, 7	325	1-9	7 7	
Operate Control Boards (2)	1-3,6	19.54	1,2, 4,5, 7,9	2. 1 . 5.6. 7 .8	2,4- 7	1.5	3.4. 5.6. 8.9	1.4.3 6-9 5,7,8					
Communicate and Interact With the Crew	1,2,6	14.2 54	1,2, 4,5, 7,9	2. ∄. ∜ 5.6. 7. ≸	1, 4 - 7	3.67.5	3,4, 5,6, 8,9	1:6.3 50 5,7,8	1-7	1.45	1-9	1.98	
Demonstrate Supervisory Ability (3)									1-7	1-12	1-9	1#8	
Comply With and Use Tech. Specs. (3)									2	2.3.	1,2	3 4.5.	

Notes:

- (1) Includes Technical Specification compliance for an RO.
- (2) Optional for an SRO-U.
- (3) Only applicable to SROs.

Instructions:

Circle the applicant's license type and enter one or more event numbers that will allow the examiners to evaluate every applicable competency for every applicant.

Author (LET):	Nicholas Valos & Charles Phillips \ Wolan a Valor Under pluthin
NRC Reviewer:	Bruce Palagi Bruce, Palagi
(Examiner of Record)	
Chief Examiner:	Hironori Peterson

* post validation dances of

Facility	Da	te of Exam):			Exam Le	evel: R	O/GRO	
							Initial		
Item Description								c#	
Questions and answers technically accurate and applicable to facility								All .	
2.	a. NRC K/As referenced for all questionsb. Facility learning objectives referenced as avail	lable				67 N	BC	M.	
3	RO/SRO overlap is no more than 75 percent, and appropriate per Section D.2.d of ES-401	d SRO que	stions	are		18 nu	B	AD	
4.	Question selection and duplication from the last appears consistent with a systematic sampling p		censin	g exam	ns		2 Sec. 20 10 10 10 10 10 10 10 10 10 10 10 10 10	**	
Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: the audit exam was systematically and randomly developed; or the audit exam was completed before the license exam was started; or the examinations were developed independently; or the licensee certifies that there is no duplication; or other (explain)							BP	M	
6.	Bank use meets limits (no more than 75 percent from the bank at least 10 percent new, and the rest modified); enter the actual question distribution at right	Bank Modified New			Bni	Bl	the		
7.	Between 50 and 60 percent of the questions on the exam (including 10 new questions) are written at the comprehension/analysis level; enter the actual question distribution at right	Memo	ory , 43	אל	C/A	3nJ	BP	M	
8.	References/handouts provided do not give away	answers				/NW	BP	10	
9.	Question content conforms with specific K/A state approved examination outline and is appropriate assigned; deviations are justified					SN	BP	#	
10.	Question psychometric quality and format meet E	S, Append	lix B, ç	guidelin	es	37,10	BP	₽°	
11. The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet						Pav	BC	N	
c NRC d NRC	or Nicholas Valos & Charles Phillips ity Reviewer (*) Bruce Palagi Chief Examiner (#) Hironori Peterson Regional Supervisor	d Name / S wholas U	ylon y	()	ku lin		5/3 7-3 7-5- 8/6	102 -02 -02 -02	
Note:	* The facility reviewer's initials/signature are not a # Independent NRC reviewer initial items in Colu	applicable mn "c;" chi	for NR ef exa	C-deve	eloped ex concurren	aminatio	ons. ired.		

Written Examination Quality Checklist

Facility:	Da	te of Exam):		E	xam Le	evel: R	SRO	
		Initial							
	Item Description								
1.	Questions and answers technically accurate and	applicable	to faci	ility		1/5	BP	1	
2.	a. NRC K/As referenced for all questionsb. Facility learning objectives referenced as available.	lable				45	BP	10	
3	RO/SRO overlap is no more than 75 percent, and appropriate per Section D.2.d of ES-401	d SRO que	stions	are		30 is	BP	D	
4	Question selection and duplication from the last t appears consistent with a systematic sampling process.		censin	g exan	ıs			to	
5.	Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: the audit exam was systematically and randomly developed, or the audit exam was completed before the license exam was started; or the examinations were developed independently; or the licensee certifies that there is no duplication; or other (explain)							to	
6	Bank use meets limits (no more than 75 percent from the bank at least 10 percent new, and the rest modified); enter the actual question distribution at right	Bank 39	Modified New		n√ ·1 ¹	SC	#		
7	Between 50 and 60 percent of the questions on the exam (including 10 new questions) are written at the comprehension/analysis level; enter the actual question distribution at right	Memo	·	ر د ل ۱ د لا	C/A 5-4 Total	אנק אי	BP	to	
8	References/handouts provided do not give away	answers				3.5	OP	N	
9.	Question content conforms with specific K/A state approved examination outline and is appropriate assigned; deviations are justified					15	BP	#	
10	Question psychometric quality and format meet E	ES, Appen	dix B, g	guidelir	nes	70	BP	M	
11.	The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet						BP	#	
c NRC	/20	ed Name /	Signati	Jan S	le job	ullyn	7-	ate 6-02 3-02 5-02 5/02	
Note.	* The facility reviewer's initials/signature are not # Independent NRC reviewer initial items in Colu								

Facility: PRAIRIE ISLAND	Date of Exam: August 16, 2002	Exam L	evel:R	g /sro
			Initial	S
Item De	scription	а	b	С
1. Clean answer sheets copie	ed before grading	RAU	NA	AP
Answer key changes and coumented	question deletions justified and	Bns		Ap
Applicants' scores checked (reviewers spot check > 25)		ร่าง		#
Grading for all borderline c detail	ases (80% +/- 2%) reviewed in	isnu		Alexander of the second
5. All other failing examination are justified	ns checked to ensure that grades	isav		NA
, · · · · · · · · · · · · · · · · · · ·	estions checked for training roblems; evaluate validity of r more of the applicants	1520	V	H
	Printed Name / Signature		D	ate
a. Grader (NRC) <u>C. Pr</u>	nillips/N. Valos I (philm N/a	los_	3/2	3/6_
b. Facility Reviewer (*) <u>Not A</u>	Applicable (NRC written & graded	exam)		
c. NRC Chief Examiner (*) <u>H. Pe</u>	eterson Anguar Lessa		8/2	8/02
d. NRC Supervisor (*) <u>D. Pe</u>	elton / Ow		8/2	1/02
(*) The facility reviewer's signal NRC; two independent NRC	ature is not applicable for examina C reviews are required.	tions grad	led by t	the

PRAIRIE ISLAND RO EXAM 2002

001	В	021	Α	041	Α	061	Α	081	Α
002	С	022	С	042	В	062	С	082	В
003	В	023	С	043	D	063	С	083	С
004	Α	024	В	044	D	064	D	084	D
005	С	025	В	045	D	065	D	085	D
006	В	026	D	046	D	066	D	086	В
007	В	027	В	047	D	067	В	087	В
800	D	028	D	048	В	068	С	088	D
009	D	029	Α	049	A	069	В	089	Α
010	С	030	Α	050	С	070	В	090	В
011	Α	031	Α	051	В	071	D	091	С
012	С	032	С	052	A	072	С	092	D
013	D	033	В	053	D	073	Α	093	Α
014	В	034	С	054	Α	074	Α	094	С
015	Α	035	D	055	С	075	В	095	D
016	D	036	D	056	A	076	В	096	В
017	D	037	В	057	В	077	D	097	Α
018	Α	038	Α	058	С	078	С	098	D
019	Α	039	В	059	С	079	В	099	С
020	Α	040	D	060	Α	080	Α	100	В

	lity: PRAIRIE ISLAND	Date of Exam: August 16, 2002	Exam L	evei. R	CORC
				Initial	s
	lt	em Description	а	b	С
1.	Clean answer sheets	s copied before grading	f nu	NA	2/
2.	Answer key changes documented	s and question deletions justified and	טמ' ל		to
3.		necked for addition errors k > 25% of examinations)	טבק		*
4.	Grading for all borde detail	rline cases (80% +/- 2%) reviewed in	テカン		A
5.	All other failing exam	ninations checked to ensure that grade:	אג <i>ו</i> ל		NA
6.	deficiencies and wor	sed questions checked for training ding problems; evaluate validity of half or more of the applicants	Shu	V	AP
_		Printed Name / Signature	•	D	ate
a. G	rader (NRC)	C. Phillips/N. Valos 1 i / Tuiln no	Valos	_2/-	23/02
b. F	acility Reviewer (*)	Not Applicable (NRC written & grade	d exam)		
c. N	RC Chief Examiner (*)	H. Peterson	race	8/2	8/02
d. N	RC Supervisor (*)	D. Pelton / han his		8/2	2/02

SRO Answer Key

1. B	26.D	51.D	76.C
2. C	27.A	52.D	77.A
3. B	28.A	53.B	78.B
4. A	29.C	54.C	79.C
5. C	30.B	55.B	80.A
6. B	31.B	56.D	81.C
7. D	32.A	57.A	82.C
8. C	33.B ·	58.B	83.C
9. A	34.D	59.B	84.A
10.C	35.D	60.C	85.D
11.D	36.D	61.B	86.B
12.B	37.D	62.A	87.A
13.A	38.B	63.B	88.B
14.D	39.A	64.B _s	89.D
15.D	40.B	65.B	90.D
16.A	41.D	66.D	91.C
17.A	42.A	67.B	92.C
18.A	43.C	68.A	93.C
19.A	44.B	69.C	94.B
20.C	45.C	70.A	95.C
21.C	46.A	71.A	96.C
22.B	47.A	72.C	97.C
23.B	48.C	73.C	98.C
24.D	49.C	74.D	99.B
25.B	50.D	75.B	100.B

	Task Description	Date Complete
1.	Facility written exam comments or graded exams received and verified complete	original would 8/23/0 muil comps rocused 8/ (NO 17057 CXM COMM
2.	Facility written exam comments reviewed and incorporated and NRC grading completed, if necessary	
3.	Operating tests graded by NRC examiners	8/21-22/02
4.	NRC Chief examiner review of written exam and operating test grading completed	8/23/02 8/21-22/02 8/28/02
5.	Responsible supervisor review completed	8/30/02
6.	Management (licensing official) review completed	8/30/02
7.	License and denial letters mailed	9/8/02
8.	Facility notified of results	9/6/02
9.	Examination report issued (refer to NRC MC 0610)	9/12/2002
10.	Reference material returned after final resolution of any appeals	N/A DID UNT Regust back Ref Mtl